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1/29

#2

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```
                    RAW SEQUENCE LISTING              DATE: 02/10/2002
                    PATENT APPLICATION:  US/10/038,612  TIME: 12:57:21

                    Input Set : N:\Crf3\RULE60\10038612.txt
                    Output Set: N:\CRF3\02102002\J038612.raw

       3 <110> APPLICANT: Ben-Sasson, Shmuel A.
       5 <120> TITLE OF INVENTION: Short Peptides Which Selectively
       6       Modulate the Activity of Protein Kinases
       9 <130> FILE REFERENCE: 1242.1029-000 (CMCC-679)
C-->  11 <140> CURRENT APPLICATION NUMBER: US/10/038,612
C-->  12 <141> CURRENT FILING DATE: 2002-01-08
      14 <150> PRIOR APPLICATION NUMBER: US 09/161,094
      15 <151> PRIOR FILING DATE: 1998-09-25
      17 <160> NUMBER OF SEQ ID NOS: 172
      19 <170> SOFTWARE: FastSEQ for Windows Version 4.0
      21 <210> SEQ ID NO: 1
      22 <211> LENGTH: 20
      23 <212> TYPE: PRT
      24 <213> ORGANISM: unknown
      26 <220> FEATURE:
      27 <223> OTHER INFORMATION: c-Raf
      29 <400> SEQUENCE: 1
      30 Thr Gln Trp Cys Glu Gly Ser Ser Leu Tyr Lys His Leu His Val Gln
      31 1               5                   10                  15
      32 Glu Thr Lys Phe
      33             20
      36 <210> SEQ ID NO: 2
      37 <211> LENGTH: 20
      38 <212> TYPE: PRT
      39 <213> ORGANISM: unknown
      41 <220> FEATURE:
      42 <223> OTHER INFORMATION: a-Raf
      44 <400> SEQUENCE: 2
      45 Thr Gln Trp Cys Glu Gly Ser Ser Leu Tyr His His Leu His Val Ala
      46 1               5                   10                  15
      47 Asp Thr Arg Phe
      48             20
      51 <210> SEQ ID NO: 3
      52 <211> LENGTH: 20
      53 <212> TYPE: PRT
      54 <213> ORGANISM: unknown
      56 <220> FEATURE:
      57 <223> OTHER INFORMATION: Braf
      59 <400> SEQUENCE: 3
      60 Thr Gln Trp Cys Glu Gly Ser Ser Leu Tyr His His Leu His Ile Ile
      61 1               5                   10                  15
      62 Glu Thr Lys Phe
      63             20
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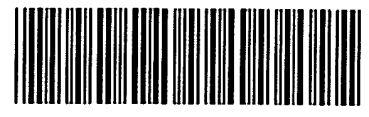
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RAW SEQUENCE LISTING   DATE: 02/10/2002
PATENT APPLICATION: US/10/038,612   TIME: 12:57:21

Input Set : N:\Crf3\RULE60\10038612.txt
Output Set: N:\CRF3\02102002\J038612.raw

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 67 <211> LENGTH: 19
 68 <212> TYPE: PRT
 69 <213> ORGANISM: unknown
 71 <220> FEATURE:
 72 <223> OTHER INFORMATION: c-APKa
 74 <400> SEQUENCE: 4
 75 Met Glu Tyr Val Pro Gly Gly Glu Met Phe Ser His Leu Arg Arg Ile
 76 1               5                   10                  15
 77 Gly Arg Phe
 81 <210> SEQ ID NO: 5
 82 <211> LENGTH: 19
 83 <212> TYPE: PRT
 84 <213> ORGANISM: unknown
 86 <220> FEATURE:
 87 <223> OTHER INFORMATION: cAPKg
 89 <400> SEQUENCE: 5
 90 Met Glu Tyr Val Pro Gly Gly Glu Met Phe Ser Arg Leu Gln Arg Val
 91 1               5                   10                  15
 92 Gly Arg Phe
 96 <210> SEQ ID NO: 6
 97 <211> LENGTH: 19
 98 <212> TYPE: PRT
 99 <213> ORGANISM: unknown
101 <220> FEATURE:
102 <223> OTHER INFORMATION: PKCa
104 <400> SEQUENCE: 6
105 Met Glu Tyr Val Asn Gly Gly Asp Leu Met Tyr His Ile Gln Gln Val
106 1               5                   10                  15
107 Gly Lys Phe
111 <210> SEQ ID NO: 7
112 <211> LENGTH: 19
113 <212> TYPE: PRT
114 <213> ORGANISM: unknown
116 <220> FEATURE:
117 <223> OTHER INFORMATION: PKCb
119 <400> SEQUENCE: 7
120 Met Glu Tyr Val Asn Gly Gly Asp Leu Met Tyr His Ile Gln Gln Val
121 1               5                   10                  15
122 Gly Arg Phe
126 <210> SEQ ID NO: 8
127 <211> LENGTH: 19
128 <212> TYPE: PRT
129 <213> ORGANISM: unknown
131 <220> FEATURE:
132 <223> OTHER INFORMATION: PKCg
134 <400> SEQUENCE: 8
135 Met Glu Tyr Val Thr Gly Gly Asp Leu Met Tyr His Ile Gln Gln Leu
136 1               5                   10                  15
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RAW SEQUENCE LISTING   DATE: 02/10/2002
PATENT APPLICATION: US/10/038,612   TIME: 12:57:21

Input Set : N:\Crf3\RULE60\10038612.txt
Output Set: N:\CRF3\02102002\J038612.raw

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137 Gly Lys Phe
141 <210> SEQ ID NO: 9
142 <211> LENGTH: 19
143 <212> TYPE: PRT
144 <213> ORGANISM: unknown
146 <220> FEATURE:
147 <223> OTHER INFORMATION: PKCd
149 <400> SEQUENCE: 9
150 Met Glu Phe Leu Asn Gly Gly Asp Leu Met Phe His Ile Gln Asp Lys
151 1               5                   10                  15
152 Gly Arg Phe
156 <210> SEQ ID NO: 10
157 <211> LENGTH: 19
158 <212> TYPE: PRT
159 <213> ORGANISM: unknown
161 <220> FEATURE:
162 <223> OTHER INFORMATION: PKCe
164 <400> SEQUENCE: 10
165 Met Glu Tyr Val Asn Gly Gly Asp Leu Met Phe Gln Ile Gln Arg Ser
166 1               5                   10                  15
167 Arg Lys Phe
171 <210> SEQ ID NO: 11
172 <211> LENGTH: 19
173 <212> TYPE: PRT
174 <213> ORGANISM: unknown
176 <220> FEATURE:
177 <223> OTHER INFORMATION: PKCet
179 <400> SEQUENCE: 11
180 Met Glu Phe Val Asn Gly Gly Asp Leu Met Phe His Ile Gln Lys Ser
181 1               5                   10                  15
182 Arg Arg Phe
186 <210> SEQ ID NO: 12
187 <211> LENGTH: 19
188 <212> TYPE: PRT
189 <213> ORGANISM: unknown
191 <220> FEATURE:
192 <223> OTHER INFORMATION: PKCth
195 <400> SEQUENCE: 12
196 Met Glu Tyr Leu Asn Gly Gly Asp Leu Met Tyr His Ile Gln Ser Cys
197 1               5                   10                  15
198 His Lys Phe
202 <210> SEQ ID NO: 13
203 <211> LENGTH: 19
204 <212> TYPE: PRT
205 <213> ORGANISM: unknown
207 <220> FEATURE:
208 <223> OTHER INFORMATION: Akt1/Raca
210 <400> SEQUENCE: 13
211 Met Glu Tyr Ala Asn Gly Gly Glu Leu Phe Phe His Leu Ser Arg Glu
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RAW SEQUENCE LISTING   DATE: 02/10/2002
PATENT APPLICATION: US/10/038,612   TIME: 12:57:21

Input Set : N:\Crf3\RULE60\10038612.txt
Output Set: N:\CRF3\02102002\J038612.raw

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212  1                5              10              15
213 Arg Val Phe
217 <210> SEQ ID NO: 14
218 <211> LENGTH: 22
219 <212> TYPE: PRT
220 <213> ORGANISM: unknown
222 <220> FEATURE:
223 <223> OTHER INFORMATION: GSK3a
225 <400> SEQUENCE: 14
226 Leu Glu Tyr Val Pro Glu Thr Val Tyr Arg Val Ala Arg His Phe Thr
227  1                5              10              15
228 Lys Ala Lys Leu Ile Ile
229             20
232 <210> SEQ ID NO: 15
233 <211> LENGTH: 22
234 <212> TYPE: PRT
235 <213> ORGANISM: unknown
237 <220> FEATURE:
238 <223> OTHER INFORMATION: GSK3b
240 <400> SEQUENCE: 15
241 Leu Asp Tyr Val Pro Glu Thr Val Tyr Arg Val Ala Arg His Tyr Ser
242  1                5              10              15
243 Arg Ala Lys Gln Thr Leu
244             20
247 <210> SEQ ID NO: 16
248 <211> LENGTH: 16
249 <212> TYPE: PRT
250 <213> ORGANISM: unknown
252 <220> FEATURE:
253 <223> OTHER INFORMATION: CK IIa
255 <400> SEQUENCE: 16
256 Phe Glu His Val Asn Asn Thr Asp Phe Lys Gln Leu Tyr Gln Thr Leu
257  1                5              10              15
260 <210> SEQ ID NO: 17
261 <211> LENGTH: 16
262 <212> TYPE: PRT
263 <213> ORGANISM: unknown
265 <220> FEATURE:
266 <223> OTHER INFORMATION: CK IIa'
268 <400> SEQUENCE: 17
269 Phe Glu Tyr Ile Asn Asn Thr Asp Phe Lys Gln Leu Tyr Gln Ile Leu
270  1                5              10              15
273 <210> SEQ ID NO: 18
274 <211> LENGTH: 19
275 <212> TYPE: PRT
276 <213> ORGANISM: unknown
278 <220> FEATURE:
279 <223> OTHER INFORMATION: bARK1
281 <400> SEQUENCE: 18
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RAW SEQUENCE LISTING   DATE: 02/10/2002
PATENT APPLICATION: US/10/038,612   TIME: 12:57:21

Input Set : N:\Crf3\RULE60\10038612.txt
Output Set: N:\CRF3\02102002\J038612.raw

```
282 Leu Asp Leu Met Asn Gly Gly Asp Leu His Tyr His Leu Ser Gln His
283 1               5                   10                  15
284 Gly Val Phe
288 <210> SEQ ID NO: 19
289 <211> LENGTH: 23
290 <212> TYPE: PRT
291 <213> ORGANISM: unknown
293 <220> FEATURE:
294 <223> OTHER INFORMATION: GRK1
297 <400> SEQUENCE: 19
298 Met Thr Ile Met Asn Gly Gly Asp Ile Arg Tyr His Ile Tyr Asn Val
299 1               5                   10                  15
300 Asp Glu Asp Asn Pro Gly Phe
301             20
304 <210> SEQ ID NO: 20
305 <211> LENGTH: 21
306 <212> TYPE: PRT
307 <213> ORGANISM: unknown
309 <220> FEATURE:
310 <223> OTHER INFORMATION: GRK4
312 <400> SEQUENCE: 20
313 Leu Thr Ile Met Asn Gly Gly Asp Leu Lys Phe His Ile Tyr Asn Leu
314 1               5                   10                  15
315 Gly Asn Pro Gly Phe
316             20
319 <210> SEQ ID NO: 21
320 <211> LENGTH: 21
321 <212> TYPE: PRT
322 <213> ORGANISM: unknown
324 <220> FEATURE:
325 <223> OTHER INFORMATION: GRK5
327 <400> SEQUENCE: 21
328 Leu Thr Ile Met Asn Gly Gly Asp Leu Lys Phe His Ile Tyr Asn Met
329 1               5                   10                  15
330 Gly Asn Pro Gly Phe
331             20
334 <210> SEQ ID NO: 22
335 <211> LENGTH: 21
336 <212> TYPE: PRT
337 <213> ORGANISM: unknown
339 <220> FEATURE:
340 <223> OTHER INFORMATION: GRK6
342 <400> SEQUENCE: 22
343 Leu Thr Leu Met Asn Gly Gly Asp Leu Lys Phe His Ile Tyr His Met
344 1               5                   10                  15
345 Gly Gln Ala Gly Phe
346             20
349 <210> SEQ ID NO: 23
350 <211> LENGTH: 19
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VERIFICATION SUMMARY
PATENT APPLICATION: US/10/038,612

DATE: 02/10/2002
TIME: 12:57:22

Input Set : N:\Crf3\RULE60\10038612.txt
Output Set: N:\CRF3\02102002\J038612.raw

L:11 M:270 C: Current Application Number differs, Replaced Current Application Number
L:12 M:271 C: Current Filing Date differs, Replaced Current Filing Date